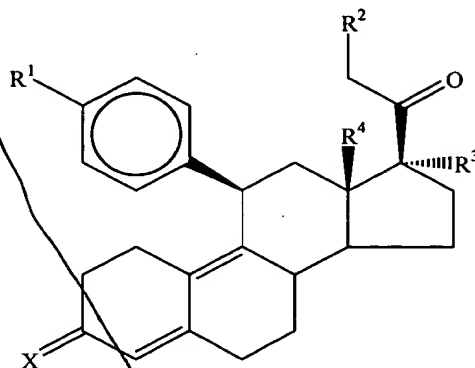


WHAT IS CLAIMED IS:

1

A compound having the general formula:



2

3 wherein:

4 R^1 is a member selected from the group consisting of $-OCH_3$, $-SCH_3$,
 5 $-N(CH_3)_2$, $-NHCH_3$, $-NC_4H_8$, $-NC_5H_{10}$, $-NC_4H_8O$, $-CHO$, $-CH(OH)CH_3$, $-C(O)CH_3$,
 6 $-O(CH_2)_2N(CH_3)_2$, $-O(CH_2)_2NC_4H_8$, and $-O(CH_2)_2NC_5H_{10}$;

7 R^2 is a member selected from the group consisting of hydrogen,
 8 halogen, alkyl, acyl, hydroxy, alkoxy, acyloxy, alkylcarbonate, cypionyloxy, S-alkyl, $-SCN$,
 9 S-acyl, and $-OC(O)R^6$, wherein R^6 is a member selected from the group consisting of alkyl,
 10 alkoxy ester and alkoxy;

11 R^3 is a member selected from the group consisting of alkyl, hydroxy,
 12 alkoxy and acyloxy;

13 R^4 is a member selected from the group consisting of hydrogen and
 14 alkyl; and

15 X is a member selected from the group consisting of $=O$ and $=N-OR^5$,
 16 wherein R^5 is a member selected from the group consisting of hydrogen and alkyl.

1 ✓2. The compound in accordance with claim 1, wherein R^1 is a member
 2 selected from the group consisting of $-N(CH_3)_2$, $-NC_4H_8$, $-NC_5H_{10}$, $-NC_4H_8O$, $-C(O)CH_3$,
 3 $-O(CH_2)_2N(CH_3)_2$, $-O(CH_2)_2NC_4H_8$, and $-O(CH_2)_2NC_5H_{10}$.

1 ✓3. The compound in accordance with claim 1, wherein R^2 is a member
 2 selected from the group consisting of hydrogen, alcyloxy, alkoxy, $-SAC$, $-SCN$,

3 ~~Sub~~ ~~3~~ ~~4~~ ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~ ~~11~~ ~~12~~ ~~13~~ ~~14~~ ~~15~~ ~~16~~ ~~17~~ ~~18~~ ~~19~~ ~~20~~ ~~21~~ ~~22~~ ~~23~~ ~~24~~ ~~25~~ ~~26~~ ~~27~~ ~~28~~ ~~29~~ ~~30~~ ~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~ ~~36~~ ~~37~~ ~~38~~ ~~39~~ ~~40~~ ~~41~~ ~~42~~ ~~43~~ ~~44~~ ~~45~~ ~~46~~ ~~47~~ ~~48~~ ~~49~~ ~~50~~ ~~51~~ ~~52~~ ~~53~~ ~~54~~ ~~55~~ ~~56~~ ~~57~~ ~~58~~ ~~59~~ ~~60~~ ~~61~~ ~~62~~ ~~63~~ ~~64~~ ~~65~~ ~~66~~ ~~67~~ ~~68~~ ~~69~~ ~~70~~ ~~71~~ ~~72~~ ~~73~~ ~~74~~ ~~75~~ ~~76~~ ~~77~~ ~~78~~ ~~79~~ ~~80~~ ~~81~~ ~~82~~ ~~83~~ ~~84~~ ~~85~~ ~~86~~ ~~87~~ ~~88~~ ~~89~~ ~~90~~ ~~91~~ ~~92~~ ~~93~~ ~~94~~ ~~95~~ ~~96~~ ~~97~~ ~~98~~ ~~99~~ ~~100~~ ~~101~~ ~~102~~ ~~103~~ ~~104~~ ~~105~~ ~~106~~ ~~107~~ ~~108~~ ~~109~~ ~~110~~ ~~111~~ ~~112~~ ~~113~~ ~~114~~ ~~115~~ ~~116~~ ~~117~~ ~~118~~ ~~119~~ ~~120~~ ~~121~~ ~~122~~ ~~123~~ ~~124~~ ~~125~~ ~~126~~ ~~127~~ ~~128~~ ~~129~~ ~~130~~ ~~131~~ ~~132~~ ~~133~~ ~~134~~ ~~135~~ 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R⁴ is methyl; and

X is =0.

~~13.~~ The compound in accordance with claim 1, wherein:

R^1 is $-NC_4H_8$;

~~R² is hydrogen;~~

~~R³ is acetoxy;~~

R⁴ is methyl; and

X is =0.

~~14.~~ The compound in accordance with claim 1, wherein:

R¹ is -NC₅H₁₀;

R² is hydrogen;

R³ is acetoxy;

R⁴ is methyl; and

X is =0.

15. The compound in accordance with claim 1, wherein:

R¹ is -NC₄H₈O;

R² is hydrogen;

R³ is acetoxy;

R⁴ is methyl; and

X is =0.

✓ 16. The compound in accordance with claim 1, wherein:

R^1 is $-\text{C}(\text{O})\text{CH}_3$;

R^2 is hydrogen;

R^3 is acetoxy;

R⁴ is methyl; and

X is =0.

- 1 ~~17.~~ The compound in accordance with claim 1, wherein:
 2 R^1 is $-SCH_3$;
 3 R^2 is hydrogen;
 4 R^3 is acetoxy;
 5 R^4 is methyl; and
 6 X is $=O$.

- 1 ~~18.~~ The compound in accordance with claim
 2 wherein:
 3 R^1 is $-N(CH_3)_2$;
 4 R^2 is hydrogen;
 5 R^3 is methoxy;
 6 R^4 is methyl; and
 7 X is $=O$.

- 1 ~~19.~~ The compound in accordance with claim 1, wherein:
 2 R^1 is $-NC_5H_{10}$;
 3 R^2 is hydrogen;
 4 R^3 is methoxy;
 5 R^4 is methyl; and
 6 X is $=O$.

- 1 ~~20.~~ The compound in accordance with claim 1, wherein:
 2 R^1 is $-NC_5H_{10}$;
 3 R^2 is acetoxy;
 4 R^3 is acetoxy;
 5 R^4 is methyl; and
 6 X is $=O$.

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1 ~~21.~~ The compound in accordance with claim 1, wherein:
2 R^1 is $-C(O)CH_3$;
3 R^2 is acetoxy;
4 R^3 is acetoxy;
5 R^4 is methyl; and
6 X is $=O$.

1 ~~22.~~ The compound in accordance with claim 1, wherein:
2 R^1 is $-C(O)CH_3$;
3 R^2 is $-SAc$;
4 R^3 is acetoxy;
5 R^4 is methyl; and
6 X is $=O$.

1 ~~23.~~ The compound in accordance with claim 1, wherein:
2 R^1 is $-C(O)CH_3$;
3 R^2 is methoxy;
4 R^3 is methoxy;
5 R^4 is methyl; and
6 X is $=O$.

1 ✓ 24. The compound in accordance with claim 1, wherein:
2 R^1 is $-N(CH_3)_2$;
3 R^2 is methoxy;
4 R^3 is methoxy;
5 R^4 is methyl; and
6 X is $=O$.

1 ✓ 25. The compound in accordance with claim 1, wherein:
2 R^1 is $-N(CH_3)_2$;
3 R^2 is methoxy;

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cont.

4 R³ is ethoxy;
5 R⁴ is methyl; and
6 X is =O.

1 ~~26.~~ The compound in accordance with claim 1, wherein:
2 ~~R¹ is -NC₄H₈;~~
3 ~~R² is methoxy;~~
4 ~~R³ is methoxy;~~
5 ~~R⁴ is methyl; and~~
6 ~~X is =O.~~

1 ~~27.~~ The compound in accordance with claim 1, wherein:
2 ~~R¹ is -NC₅H₁₀;~~
3 ~~R² is methoxy;~~
4 ~~R³ is methoxy;~~
5 ~~R⁴ is methyl; and~~
6 ~~X is =O.~~

1 ~~28.~~ The compound in accordance with claim 1, wherein:
2 ~~R¹ is -NC₅H₁₀;~~
3 ~~R² is methoxy;~~
4 ~~R³ is acetoxy;~~
5 ~~R⁴ is methyl; and~~
6 ~~X is =O.~~

1 ~~29.~~ The compound in accordance with claim 1, wherein:
2 ~~R¹ is -C(O)CH₃;~~
3 ~~R² is methoxy;~~
4 ~~R³ is acetoxy;~~
5 ~~R⁴ is methyl; and~~
6 ~~X is =O.~~

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1 + 30. The compound in accordance with claim 1, wherein:

2 R^1 is $-O(CH_2)_2N(CH_3)_2$;

3 R^2 is methoxy;

4 R^3 is acetoxy;

5 R^4 is methyl; and

6 X is $=O$.

1 + 31. The compound in accordance with claim 1, wherein:

2 R^1 is $-O(CH_2)_2NC_4H_8$;

3 R^2 is methoxy;

4 R^3 is acetoxy;

5 R^4 is methyl; and

6 X is $=O$.

1 + 32. The compound in accordance with claim 1, wherein:

2 R^1 is $-O(CH_2)_2NC_5H_{10}$;

3 R^2 is methoxy;

4 R^3 is acetoxy;

5 R^4 is methyl; and

6 X is $=O$.

1 + 33. The compound in accordance with claim 1, wherein:

2 R^1 is $-N(CH_3)_2$;

3 R^2 is $-OC(O)CH_2CH_3$;

4 R^3 is acetoxy;

5 R^4 is methyl; and

6 X is $=O$.

1 + 34. The compound in accordance with claim 1, wherein:

2 R^1 is $-N(CH_3)_2$;

3 R^2 is $-OC(O)CH_2OCH_3$;

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4 R^3 is acetoxy;
 5 R^4 is methyl; and
 6 X is =O.

1 ~~35.~~ The compound in accordance with claim 1, wherein:
 2 R^1 is $-N(CH_3)_2$;
 3 R^2 is $-OC(O)OCH_3$;
 4 R^3 is acetoxy;
 5 R^4 is methyl; and
 6 X is =O.

1 ~~36.~~ The compound in accordance with claim 1, wherein:
 2 R^1 is $-N(CH_3)_2$;
 3 R^2 is $-OCH=CH_2$;
 4 R^3 is acetoxy;
 5 R^4 is methyl; and
 6 X is =O.

1 ~~37.~~ The compound in accordance with claim 1, wherein:
 2 R^1 is $-N(CH_3)_2$;
 3 R^2 is $-OCH=CH_2$;
 4 R^3 is methoxy;
 5 R^4 is methyl; and
 6 X is =O.

1 ~~38.~~ The compound in accordance with claim 1, wherein:
 2 R^1 is $-N(CH_3)_2$;
 3 R^2 is $-OCH=CH_2$;
 4 R^3 is ethoxy;
 5 R^4 is methyl; and
 6 X is =O.

Sub
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39. The compound in accordance with claim 1, wherein:

R^1 is $-N(CH_3)_2$;

R^2 is $-SCN$;

R^3 is acetoxy;

R^4 is methyl; and

X is $=O$.

40. The compound in accordance with claim 1, wherein:

R^1 is $-N(CH_3)_2$;

R^2 is $-OC(O)H$;

R^3 is $-OC(O)H$;

R^4 is methyl; and

X is $=O$.

41. The compound in accordance with claim 1, wherein:

R^1 is $-N(CH_3)_2$;

R^2 is $-OC(O)H$;

R^3 is hydroxy;

R^4 is methyl; and

X is $=O$.

42. The compound in accordance with claim 1, wherein:

R^1 is $-N(CH_3)_2$;

R^2 is $-OC(O)CH_2N(CH_3)_2$;

R^3 is acetoxy;

R^4 is methyl; and

X is $=O$.

43. The compound in accordance with claim 1, wherein:

R^1 is $-NC_5H_{10}$;

R^2 is hydrogen;

R³ is acetoxy;

R⁴ is methyl; and

X is =N-OR⁵, wherein R⁵ is hydrogen.

~~44.~~ The compound in accordance with claim 1, wherein:

R¹ is -N(CH₃)₂;

R² is hydrogen;

~~R³ is methoxy;~~

~~R⁴ is methyl; and~~

X is ~~=N-OR⁵~~, wherein R⁵ is hydrogen.

45. The compound in accordance with claim 1, wherein:

~~R¹ is -NC₅H₁₀~~

R² is hydrogen;

R³ is methoxy;

R⁴ is methyl; and

X is =N-OR⁵, wherein R⁵ is hydrogen.

46. The compound in accordance with claim 1, wherein:

R¹ is -N(CH₃)₂;

R² is methoxy;

R³ is methoxy;

R⁴ is methyl; and

X is =N-OR⁵, wherein R⁵ is hydrogen.

47. The compound in accordance with claim 1, wherein:

R¹ is -NHCH₃;

R² is methoxy;

R^3 is acetoxy;

R⁴ is methyl; and

X is =0.

1 ~~48.~~ The compound in accordance with claim 1, wherein:

2 R^1 is $-NHCH_3$;

3 R^2 is acetoxy;

4 R^3 is acetoxy;

5 R^4 is methyl; and

6 X is =O.

1 ~~49.~~ A pharmaceutical composition comprising an effective amount of a
2 compound in accordance with claim 1 and a pharmaceutically acceptable excipient.

1 50. A method of producing an antiprogestational effect in a patient, said
2 method comprising administering to said patient an effective amount of a compound in
3 accordance with claim 1.

1 51. A method of inducing menses in a patient, said method comprising
2 administering to said patient an effective amount of a compound in accordance with claim 1.

1 52. A method of treating endometriosis, said method comprising
2 administering to said patient an effective amount of a compound in accordance with claim 1.

1 53. A method of treating dysmenorrhea, said method comprising
2 administering to said patient an effective amount of a compound in accordance with claim 1.

1 54. A method of treating endocrine hormone-dependent tumors, said
2 method comprising administering to said patient an effective amount of a compound in
3 accordance with claim 1.

1 55. A method of treating meningiomas, said method comprising
2 administering to said patient an effective amount of a compound in accordance with claim 1.

1 **60.** A method of postcoital contraception, said method comprising
2 administering to a patient an effective amount of a compound in accordance with claim 1.

add Δ_2